

84738

S/055/60/000/004/005/007XX
C111/C222

On Non-Homogeneous Equations of Infinite Order in a Generalized
Derivative

Theorem 3: Let $\phi(z) = \sum_{k=0}^{\infty} a_k z^k$ be an entire function of finite order ρ_0
and of normal type Θ_0 . If $\rho_0 > \rho$, then there exists a particular solution
of (11) being an entire function the order of which is not greater than
 ρ_0 ; if $\rho_0 \leq \rho$, then there exists a solution with the order $\leq \rho$. X

Theorem 3': Let $\phi(z) = \sum_{k=0}^{\infty} a_k z^k$ be an entire function of the order ρ_0
and of maximal type. If then $\rho_0 > \rho$, then to every $\varepsilon > 0$ there exists a
solution $y(z)$ of (11) so that

$$|y(z)| < e^{|z|^{\rho_0 + \varepsilon}}, \quad |z| > r_0;$$

but if $\rho_0 \leq \rho$, then there exists a solution $y(z)$ so that

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On Non-Homogeneous Equations of Infinite Order in a Generalized
Derivative

$$|y(z)| < e^{|z|^{\beta+\varepsilon}}, \quad |z| > r_0.$$

The author thanks A.O.Gel'fond and A.F.Leont'yev.
There are 5 references: 4 Soviet and 1 Swiss.

ASSOCIATION: Kafedra teorii chisel (Chair of Number Theory)

SUBMITTED: July 3, 1959

Card 5/5

S/193/60/000/006/008/015
A004/A001

9.5140 (also 3702)

AUTHOR: Frolov, Yu.N.

TITLE: The Models TP-1 (TP-1) and TP-2 (TP-2) Semiconductor Microcoolers

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 6, pp. 35 - 36

TEXT: The Leningrad Pilot Plant and Special Design and Technology Office for Semiconductor and Ultrasonic Instruments of the Leningrad Sovnarkhoz in co-operation with the Institut poluprovodnikov AN SSSR (Institute of Semiconductors of the AS USSR) developed in 1959 an industrial type TP-1 and TP-2 semiconductor microcoolers intended to reduce the temperature of units of radioelectronic equipment, e.g. germanium crystal rectifiers, photovaristors, inductances, capacitances etc. The operation principle of the devices is identical and based on the utilization of the Peltier effect in semiconductors. The TP-1 device consists of two aluminum cylinders insulated from one another by a foam-plastic bushing. The main part of the cooler is the thermoelectric semiconductor battery composed of 36 hole and electron semiconductors connected in series and filled with the ED-6 (ED-6) epoxy resin. The thermobattery has two lead-outs for connecting it to the supply

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S/193/60/000/006/008/015
A004/A001

The Models TII -1 (TP-1) and TII -2 (TP-2) Semiconductor Microcoolers

source. As a result of current passing through the battery, one side of it is heated, the other cooled. The device has a base plate through which the heat is led off into the chassis. The TP-2 cooler is somewhat different from the TP-1 model, above all it is bigger. Besides, the lower part of the outer cylinder has, apart from the two supply lead-outs, another ten lead-outs to connect the device placed in the interior of the cooler. In the interior of the cooler cells can be placed the total power output of which does not exceed 3 - 5 w. The micro-coolers ensure a temperature drop of 23-25°C in a temperature range of the surrounding medium from -20 to +50°C, at a relative humidity of 98% and an atmospheric pressure of 760 - 600 mm Hg. The coolers are supplied from a d-c source of 8 - 12 amp and 1.0 - 1.5 v. The required power is 8 - 18 w. The internal holding capacity of the TP-1 cooler amounts to 75 cm³, that of the TP-2 is 100 cm³. The overall dimensions are 80 x 80 x 120 mm and 86 x 100 x 100 mm respectively, while the TP-1 cooler weighs 0.39 kg and the TP-2 cooler 0.4 kg. There are 2 figures.

Card 2/2

16.6500

39877
S/044/62/000/007/020/100
C111/C333

AUTHOR: Frolov, Yu. N.

TITLE: On the solution of an equation of infinite order with respect to generalised derivatives

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 38, abstract 7B189. ("Tr. Matem. in-ta . ANSSSR", 1961, 64, 294-315)

TEXT: Let $F(z)$ be an entire function of the finite order ρ , and let $D^n F$ be its generalised derivative of the order n (Matem. sb., 1951, 29, (71) : 3, 477-500), which is generated by an entire function of the order ρ . In the mentioned paper A. O. Gel'fond and A. P. Leont'yev investigated the equation

$$M(F) = 0 \quad (1)$$

where $M(F) = \sum_{n=0}^{\infty} c_n D^n F$, where against the characteristic function

$\varphi(z) = \sum_{n=0}^{\infty} c_n z^n$ is entire of the order $\rho_1 \leq \rho$. Thereby the integral

Card 1/2

On the solution of an equation . . . S/044/62/000/007/020/100
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representation of the operator $M(F)$ has been of high importance, which in the case $\rho_1 > \rho$ does not exist. Let A be the class of the entire functions of the order ν , where $\frac{1}{\nu} > \frac{1}{\rho} - \frac{1}{\rho_1}$. The author constructs for the solution $F(z) \in A$ of (1) under the supposition of $\rho_1 > \rho$ a subsequence of partial sums of the series out of particular solutions which formally corresponds to $F(z)$. The subsequence converges uniformly to $F(z)$ in every bounded domain; the speed of the convergence is estimated. In a special case the convergence is proved in a different way by G. D. Troshin (IzhMat, 1958, 269). For the inhomogeneous equation $M(F) = \phi(z)$, $\phi(z) \in A$, one constructs a particular solution $y(z)$; $y(z)$ is an entire function of finite order. If $\nu < \rho$, then the order of $y(z)$ is not higher than ρ ; but if $\nu \geq \rho$, then the order of $y(z)$ is not higher than ν .

[Abstracter's note: Complete translation.]

Card 2/2

FROLOV, Yu.N.

Solution of an equation of infinite order in the uniqueness class.
Dokl. AN SSSR 161 no.4:783-784 Ap '65. (MIRA 18:5)

1. Submitted November 3, 1964.

FROLOV, Yu.N.

Solution of an equation of infinite order in the uniqueness class.
Izv. AN Azerb. SSR. Ser. fiz.-tekhn. i mat. nauk . no.2:26-39 '65.
(MIRA 18:8)

PROLOV, Yu.P., prof.zasluzhennyi deyatel' nauki

Behavior of fishes as determined by the function of their sense organs
under different ecological conditions. Trud sov.Ikht.kom. no.8:15-22
' 58. (MIRA 11:11)

(Sense organs--Fishes) (Fishes--Habits and behavior)

PROZIN, Yuriy PETROVICH, 1902-

Stories about physiology Moskva, Gos. izd-vo detskoi lit-ry, 1945. 125 p. (53-26809)

QP71.F74

FROLOV, Yu. P.

Honored Worker of Science

"The Great Russian Doctors and Teachers - Pirogov, Sechenov, Mechnikov, Lesgaft,
and Pavlov," Nauka i Zhizn', No.5, 1948

FROLOV, Yu. P.

USSR/Medicine - Nervous System
Medicine - Physiology

Aug 48

85
"Comparative Physiology of the Higher Nervous Activity and Darwinism," Yu. P. Frolov, Hon Mem Sci, 8 pp

"Nauka i Zhizn'" No 8

Discusses comparative anatomy of the brain in ontophylogenesis, three basic principles of Darwinism and comparative physiology of the upper nervous system, history of studies on instinct and reflex, criticism of so-called zoopsychology, Pavlov and contemporary knowledge of conditioned and unconditioned reflexes as a basis for studying the evolution of behavior, complex behavior forms from the standpoint of Pavlov's studies of the upper nervous system, and continuation of Pavlov's studies and consummation of Darwinism in one of its most important branches.

38/49T96

FRIC, Vol. 8.

34166. Patofiziologiya bronkhial'noy astmy i drugikh spazmaticheskikh sostoyaniy bronkhov v svete ucheniya I. P. Pavlova ob uslovnnykh refleksakh. V sb: Problemy kortiko-visseral'noy patologii. M., 1947, s. 334-40

SO: Krizhnaya Letopis' No 6, 1955

FROLOV, Yu. P.

"The Discoveries of I. P. Pavlov in the Field of Digestion," Fel'dsher i
Akusher, No.2, 1949

FROLOV, Yu. P.

"A General Study of the Reflexes of the Nervous System," Fel'dsher 1
Akusher, No.3, 1949

FROLOF, Yu. P.

"The Importance of Pavlov's Tests on Conditioned Salivary Reflexes in Establishing the Laws on Cerebral Function," Fel'dsher i Akusher, No.4, 1949

FROLOV, YU. P.

30501

Osnovnyye voprosy evolyutsionnoy fiziologii vysshchey nyervnoy
dyeyatel'nosti. Byullyeten' Mosk. o-va. Ispytat'yey
prirody, Otd. Bol., 1949, vyp. 5, S. 147-61, s portr.

SO: Letopis' No. 34

FROLOV, Yu, P.

30500

O nyekotorykh zakonomyernostyakh vtordy signal'noy sistemy v istoriko-kulturnom osvyescheyeni. Byallyetyen. Mosk. o-va. I spytatyelyey prirody. Otd. Biol., 1949, Vyp. 5, S. 162-71, s. portr.

SO: Letopis' No. 34

FROLOV, Ya. F.

21997 FROLOV, Ya. P. Ivan Petrovich Pavlov. K 100- letiyu so dnya Rozhdeniya.
Nauka i zhizn', 1949, No. 6, s. 32-38, s. portr.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

FROIOV, YU.F.

259#6

Snovid, veniya, rasstro, vstva sna, profilaktika i lyechyeniye. (k-100-lyetiyu so dnya rozhdyniya I.P. Pavlova). Fyel'dshyer i akushyerka, 1949, No. 7, c. 26-30, c Portr.

So: Letopis' No. 34

FRCLOV, Yu. P.,

23579

PAMYaTI NIKOLAYa ALEKSANDROVICHa SEMASHKO. 1874--1949. SOB.
PEDAGOGIKA, 1949, No. 7, C. 110-13, S. PORTR.

SO: LETOPIS' NO. 31, 1949.

FRIDAY, 11. 1.

.7338

Ucheniye Pavlova o tipakh vysshoy upravnoy byurokratsii, pogo karta
s Ilyenistichyevskiy ucheniye o (konstitutsii) organa a. P. i. shyer I
skushyarka, 1949. Ye. 9, n. 15-20, n. porir.

LC: 120113' 10. 40

FROLOV, YU. P.

30519

Staryeyshina fiziologov mira. Slavyanye, 1949, No 9, S. 50-52

SO: Letopis' No. 34

FROLOV, YU. PUTI.

27339: FROLOV, YU. PUTI.-Sovetskoy fiziologii. K 100-letiyu so dnya rozhdeniya
I.P. pavlova novyy mir, 1949, No. 9, s. 210-17.

30: Letopis'Zhurnal'nykh Statey, Vol. 47, 1948.

FROLOV, YU. P.

30518

I. P. Pavlov I tyeoriya sovyetskogo fizichyeskogo vospitaniya.
Tyeoriya I pratika fiz. kul'tury, 1949, 1949, vyp. 9, s. 644-51,
s portr.

SO: Letopis' No. 34

30939. FROLOV, YU.

Velikiy Uchenyy-Patriot. Smena, 1949, No. 18 s 2-3.

MEN'CHUKOV, Aleksandr Yevgen'yevich, inzh.; OVSEYENKO, Vladimir Vladimirovich, inzh.; PUTNIK, Nikolay Petrovich, inzh.; ANASTASIYEV, P.I., red.; FROLOV, Yu.A., red.; LARIONOV, G.Ye., tekhn. red.

[Preliminary planning of electric power transmission-line routes] Predvaritel'nye izyskaniia trass linii elektropredachi. Moskva, Gosenergoizdat, 1963. 222 p.

(MIRA 16:11)

(Electric lines--Overhead)

FROLOV, Yu.N.

Series based on solutions of differential equations. Trudy
MEI no.42:165-186 '62. (MIRA 16:7)

(Series) (Differential equations)

FROLOV Yu. P.

5134. FROLOV Yu. P. Fundamental problems of developmental physiology of higher nervous activity (historical) Bulletin of the Moscow Naturalist Society 1949, 54/5 (147-161) Illus. 5

A polemical plea for the materialist trend in physiology in connection with the investigation of cerebral function, as exemplified by the study of conditioned reflexes.

Ten Cate - Amsterdam

SO: Excerpta Medica, Section 11 Volume 111 No. 9

FROLOV, Yu.P.

Physiological theory of I. P. Pavlov on time as an original stimulator of the nervous system. Zh. vysshei nerv. deiat. 1 no. 6:831-839 Nov-Dec 1951. (GLML 23:3)

1. Moscow.

FROLOV, Yuri Petrovich, 1892- , professor, zaslushennyy deyatel' nauk BSSSR.

[Hygiene and organization of brainwork in the light of I.P.Pavlov's physiological theories] Gigiena i organizatsiia umstvennogo truda v svete fiziologicheskogo ucheniia I.P.Pavlova. Moskva, Znaniia, 1952. 39 p.

(MLRA 6:7)

(Nervous system) (Occupations--Diseases and hygiene)

FROLOV, Yuriy Petrovich, 1892-

From instinct to reason; sketch in the science of behavior. Moskva, Voen, izd-vo, 1952. 115 p. (Nauchno-populiarnaiia biblioteka soidata) (53-38562)

QP359.F8 1952

MH NNC

FROLOV, Yu. P.

"Pathogenesis of Bronchial Asthma," *Pediatrics*, No.2, 1952

PROLOV, Urii Petrovich, 1892- .

[Ivan Petrovich Pavlov; reminiscences] Ivan Petrovich Pavlov;
vospominaniia. Izd.2., dop. Moskva, 1953. 286 p. (MLRA 7:3)
(Pavlov, Ivan Petrovich, 1849-1936)

FROLOV, Yu.P.

Conversion of minimum conditioned stimuli and minimum conditioned
inhibitors into factual conditioned stimuli. Trudy fiziol. lab.
1 no.1/3:263-270 '53 (MLRA 9:5)

(INHIBITION)

FROLOV, PROF. Yu.

Pavlov, Ivan Petrovich, 1849 1936

I. P. Pavlov's teachings are the pride of Russian science.
Klub 2 no. 2, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

FROLOV, Yu.P., professor, zaslushennyi deyatel' nauki.

Hygiene in intellectual work. Nauka i shizn' 20 no.5:31-32 My '53.
(MLRA 6:6)
(Mental physiology and hygiene)

FROLOV, Yu.P., professor (Moscow).

Review of the book "Selected works of I.M. Sechenov, I.P. Pavlov, N.E. Vvedenskii 'Physiology of the Nervous System'." Klin.med. 31 no.3:94-96 Mr '53. (MLRA 6:5)
(Nervous system) (Sechenov, Ivan Mikhailovich, 1829-1905) (Pavlov, Ivan Petrovich, 1849-1936) (Vvedenskii, Nikolai Evgen'evich, 1852-1922)

Yuri P. Frolov
FROLOV, Yu.P. [author]; SMIRNOV, S.N. [reviewer].

Review of Yu.P.Frolov's book "Sensory Organs," chapter 5, "Organ of sight and visual estimation." Reviewed by S.N.Smirnov. Vest.oft. 32 no.3:46-47 My-Je '53. (MLRA 6:8)

(Eyes) (Sight) (Frolov, IUrii Petrovich, 1892-)

2024. Frolov, Yu. P.

OT Instinkta Do Razuma. (Ocherk Nauki O Povedenii). Tallin, Estgosiz-Dat, 1954. 106 s.s ill. 205m. (Nauch.-Popul. Seriya). 7.000 Ekz. IR.
7OK. -- Na Eston. YaZ. -- (54-55682) 612.821

Frolov, Y.P.

GOLODETS, G.G.; FUCHKOV, N.V., professor, redaktor; KHLATINA, Ye.S., redaktor;
FROLOV, Yu.P., professor, retsenzent; VIKTOROV, K.P., professor, retsen-
zent; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[Laboratory manual on the physiology of fish] Laboratornyi praktikum
po fiziologii ryb. Moskva, Pishcheprom-izdat, 1955. 89 p.
(Fishes--Laboratory manuals) (MIRA 9:3)

FROLOV, Yuriy Petrovich, 1892-

[Physiology in the service of health; a scientific-popular sketch]
Fiziologiya na sluzhbu zdorov'ia. Moskva, Medgiz, 1955. 227 p.
(PHYSIOLOGY) (MLRA 9:4)

PROLOV, Yu.P., zasluzhenny deyatel'nauki, professor.

Inhalation and halation. Zdorov'e 1 no.5:11-13 My '55. (MLBA 9:3)
(RESPIRATION)

FROLOV, Yu.P., zasluzhennyi deyatel' nauki, professor

Thirst. Zdorov'e 1 no.7:1-3 J1 '55

(MIRA 9:5)

(THIRST)

FROLOV, Yu.P., professor

Vision and technology. Zdorov'e 1 no.10;9 0 '55

(MIRA 9:5)

(SIGHT)

FROLOV, Yu.P., prof., zasluzhennyi deyatel' nauki

I.M. Sechenov, great Russian physiologist. Voen.-med.zhur.
no.12:75-77 D'55 (MIRA 12:1)
(SECHENOV, IVAN MIKHAILOVICH, 1829-1905)

PROLOV, Yu.P., professor, zaslushennyi deyatel' nauki.

The great physiologist. Zdorov'e 2 no.2:7-8 F '56

(MIRA 9:5)

(PAVLOV, IVAN PAVLOVICH, 1849-1936)

FROLOV, Yu.P. (Moskva)

Review of the collection "Problems of comparative physiology and pathology of the higher nervous activity." Fiziol.zhmr. 42 no.12: 1081-1083 D '56. (MIRA 10:2)

(NERVOUS SYSTEM)

FROLOV, YU. P.

Mozg Cheloveka i kibernetika [The Human Brain and Cybernetics], Goskul'Tpros-
vetizdat [State Publishing House for Cultural and Educational Literature],
Moscow, 1957, 40 pages.

FROLOV, Yuriy Petrovich, gosluzhennyy deyatel' nauki RSFSR, professor;
KMLER, V.R., nauchnyy redaktor; BREZANOVSKAYA, L.Ya., redaktor;
YELAGIN, A.S., tekhnicheskiy redaktor

[The human brain and cybernetics] Mozg cheloveka i kibernetika.
Moskva, Gos. izd-vo kul'turno-prosv. lit-ry, 1957. 38 p. (Bibliotekha
v pomoshch' lektoru, no.6) (MLRA 10:9)
(CYBERNETICS)

FROLOV, Yu.P., professor, zasluzhennyi deyatel' nauki.

Nerve discovered by Pavlov. Zdorov'e 3 no.4:9-10 Ap '57
(MLRA 10:5)

(HEART--INNERVATION)

3-6-27/29

AUTHOR: Frolov, Yu. P., Professor, Doctor of Biological Sciences

TITLE: A Book Dedicated to the Most Important Discoveries in Physiology (Kniga, posvyashchennaya glavneyshim otkrytiyam fiziologii)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 6, pp 92-95 (USSR)

ABSTRACT: The book is a critical review of the "Physiology of Man and Animal" written by K.P. Golysheva and S.I. Gal'perin and approved by the USSR Ministry of Higher Education as a manual for state universities and pedagogical institutes. The book is half the size as the textbook edited by K.M. Bykov but by its size and contents it satisfies the requirements of a manual. He quotes in this connection the renowned Russian scientist I.P. Pavlov. Attention is called to the absence of references to the success of modern electronics, applied in physiology for the oscillographic recording of functions of the organism. In the author's opinion the book, when discussing the process of evolution, should also indicate the reverse process - the degradation of some instincts, the loss of the character of absoluteness by them.

Card 1/2

3-6-27/29

Book Dedicated to the Most Important Discoveries in Physiology

The author calls attention to several other deficiencies of the book, for instance, that the writers point to the thirst center in the nerve system but omit to mention that this center has its highest conditionally reflecting part in the cerebral cortex which sometimes makes the feeling of thirst very illusory. Further, the time when the first conditioned reflex arises in a newborn is given as 1.5 to 2.5 months; however, according to recent experiments of I. A. Bronstein these reflexes arise already in the course of the first day of a newborn. The book will, undoubtedly, be favorably greeted by the Vuz instructors. There are two Russian references.

ASSOCIATION: Institute of Philosophy AN USSR (Institut filosofii AN SSSR)

AVAILABLE: Library of Congress

Card 2/2

FROLOV, Yuriy Petrovich, prof., zaslužennyy deyatel' nauki RSFSR;
GAL'PERIN, S.I., red.; LANDAU-TYLKINA, S.P., red.; GABERLAND,
M.I., tekhn.red.

[Brain and work; I.P.Pavlov's teaching and problems in scientific
organization of work] Mozg i trud; uchenie I.P.Pavlova i voprosy
nauchnoi organizatsii truda. Moskva, Gos.izd-vo med.lit-ry,
Medgiz, 1960. 181 p. (MIRA 14:1)

(WORK, METHOD OF)

(BRAIN)

PHASE I BOOK EXPLOITATION

SOV/5045

Frolov, Yuriy Petrovich, Professor, Honored Scientist RSFSR

Mozg i trud; ucheniye I. P. Pavlova i voprosy nauchnoy organizatsii truda (Brain and Work; Teachings of I. P. Pavlov and Problems in the Scientific Organization of Work) Moscow, Medgiz, 1960. 184 p. 25,000 copies printed. (Series: Nauchno-populyarnaya meditsinskaya literatura)

Eds.: S. I. Gal'perin and S. P. Landau-Tylkina; Tech. Ed.: M. I. Gaberland.

PURPOSE: This book is intended for the general reader.

COVERAGE: The author discusses the role of the human nervous system in physical and intellectual work, and the interconnection between both forms of work, in the light of the teachings of I. P. Pavlov on higher nervous activity. Distinctive creative manifestations of the

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Brain and Work (Cont.)

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human brain under conditions of modern material progress are considered. Some practical conclusions on the organization of efficient and hygienic work are given. The subject matter is based on Pavlov's conception of two signaling systems of reality in the human brain, and embraces chiefly the major types of intellectual work, with its physiology, organization, and hygiene. The author claims that his book partly solves the problem of interrelation between development of the brain and work. No personalities are mentioned. There are no references.

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Adaptation of man to environment; environmental changes during performance of work	12
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Card=2/6

SHIROKIY, V.F., otv.red.; ANOKHIN, P.K., red. (Moskva); DVOYNINA, A.P., red.; LABUTIN, I.I., red.; LINNIKOV, O.S., red.; ROBINSON, V.Ye., red.; SAKHAROVA, O.S., red.; FROLOV, Yu.P., red. (Moskva)

[Abstracts of reports of the Scientific Conference in Honor of the 110th Anniversary of Ivan Petrovich Pavlov's Birth, 1959]
Tезисы докладов Научной конференции, посвященной 110-й годовщине со дня рождения Ивана Петровича Павлова. Рязан', 1959. 224 p. (MIRA 14:2)

1. Научная конференция, посвященная 110-й годовщине со дня рождения Ивана Петровича Павлова, 1959. 2. Кафедра физиологии Рязанского медицинского института имени академика И.П.Павлова (for Shirokiy). 3. Кафедра нормальной физиологии Рязанского медицинского института имени академика И.П.Павлова (for Dvoynina). 4. Кафедра физиологии животных Рязанского сельскохозяйственного института имени П.А.Костычева (for Labutin). 5. Дом-музей академика И.П.Павлова, Рязань (for Linnikov). 6. Кафедра анатомии и физиологии Рязанского педагогического института (for Robinson). 7. Кафедра нормальной физиологии Рязанского медицинского института имени академика И.П.Павлова (for Sakharova).
(NERVOUS SYSTEM)

FROLOV, Yu.P., prof., zaslushonnyy deyatel' nauki RSFSR (Moskva)

Teachings of Pavlov serve the people. Nauka i zhyttia 10 no. 11:38-
41 N '60. (MIRA 14:4)

(Conditioned response) (Pavlov, Ivan Petrovich, 1849-1936)

FROLOV, YU. P. (Doctor of Medical Sciences)

"The Dialectics of Living Nature and Modern Cybernetics."

Filosofskiye voprosy kibernetiki (Philosophical Problems of Cybernetics),
Publishing House of SocioEconomic Literature, Moscow, 1961 392 p.

FROLOV, Yu.P., prof. (Moskva)

"V.I. Vernadskii" by Lev Gumilevskii. Reviewed by IU.P. Frolov.
Priroda 51 no.8:47 Ag '62. (MIRA 15:9)
(Vernadskii, Vladimir Ivanovich, 1863-1945)
(Gumilevskii, Lev)

FROLOV, Yu.P., prof.

"Dead point" and "second breath." Priroda 52 no.3:36-39 '63.
(RESPIRATION) (MIRA 16:4)

FROLOV, Yu.P., prof., zaslužennyy deyatel' nauki RSFSR (Moskva)

Heroism of a scientist; in memory of Norbert Wiener . Priroda
53 no.7:95-98 '64. (MIRA 17:7)

FROLOV, Yu.P., prof.

Temperament and character. Priroda 5: no.1:50-56 Ja '66.
(MIRA 19:1)

FROLOV, Yu. S.

21(5) pl. 2,

PHASE I BOOK EXPLOITATION

SOV/1297

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniya v narodnom khozyaystve i nauke, Moscow, 1957

Polucheniye izotopov. Moshchnyye gamma-ustanovki. Radiometriya i dozimetriya; trudy konferentsii... (Isotope Production. High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science) Moscow, Izd-vo AN SSSR, 1958. 293 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR; Glavnoye upravleniye po ispol'zovaniyu atomnoy energii SSSR.

Editorial Board: Frolov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M. (Deputy Resp. Ed.), Aglintsev, K.K., Alekseyev, B.A., Bochkarev, V.V., Leshchinskiy, N.I., Malkov, T.P., Sinitsyn, V.I., and Popova, G.L. (Secretary); Tech. Ed.: Novichkov, N.D.

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Isotope Production (Cont.)

SOV/1297

PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

COVERAGE: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes 2) high-energy gamma-radiation facilities, and 3) radiometry and dosimetry.

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various biological preparations of small size but

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requiring high dosage (microorganisms, biological substrates) c) industrial radiation of biological products requiring sterilization, preservation, disinfection, etc. d) medical and therapeutical purposes.

Breger, A. Kh., V.A. Belynskiy, V.L. Karpov, S.D. Prokudin and V.B. Osipov. Facility for Radiation-Chemical Research Employing Co⁶⁰ Gamma-Radiation Source With an Activity of 21,000 g-ev of Radium

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Card 12/12

FROLOV, Yu.S.

Studying the distortions of equal-area modified cylindrical
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FROLOV, Yu.S.

Evaluating equal-area projections on the basis of mean square distortion
in direction. Vest. LGU 16 no. 6:46-63 '61. (MIRA 14:4)
(Map projection)

RESEARCH & BOOK EVALUATION

800/3054

Alfred J. Smith, Jr. but daughter LaForme

Author's address: **University of Illinois at Chicago, 3201 S. Maryland Ave., Chicago, IL 60607, USA.**

Don't let any of it worry you. We have to be able to take the sky from us.

M. I. B. Smirnov, Zh. S. Kozlov, P. V. Potapov, Editorial Board: A. P. Vinogradov
S. I. Vol'pert, E. M. Zakharenkov, N. I. Isakov, V. S. Kisilov, S. A.
Lomachenko (Technical Secretary), G. S. Medvedev, B. D. Melnik, A. S.
Petrovskiy, A. Ya. Rubinshteyn (Chief Ed.), and A. V. Topolitskiy.

REMARKS: This book is intended for the personnel of the chemical industry. It will be of interest to the general reader interested in the development and structure of the Soviet chemical industry.

COVER: 25 articles on various aspects of the Soviet economy

[illegible]

using various kinds of manufacturing plastic articles. A special apparatus designed by Dr. H. McDevitt and designated "M" which permits preparation of viscous solution is one operation is discussed. It is also shown how to replace the complex conventional equipment with great savings in space. General trends in the technology of synthetic fiber production are also discussed. A historical review of synthetic rubber production and the relationship of the rubber industry to the synthetic rubber industry are well as some important and products of synthetic rubber plants. Rubber production and the manufacture of rubber goods are similarly reviewed. Synthetic skin and waterproofing permeabilities in the development of the synthetic, plastic and organic, natural, synthetic, inelastic and stable materials, malic acid, polyethylene glycol, polyethylene glycol, and chemical, magnetic, magnetic, and chemical. Analytical processes also discussed. Thirty-eight photographs are included in the book show outside and interior views of some of the chemical laboratory buildings, as well as their manufacturing, or handling and laboratory work. Numerous permeabilities and facilities are identified in the book of the text. Numerous accompanying technical articles.

50. Sperry, S. L., A. M. Dubrovinsky (deceased), and E. A. Stenila. The Production of Mineral Fertilizers and Liquid Nitrogen. 296

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Polster, Ph.D. Y. Y. Buchholz, Ph.D.

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SMIRNOV, L.Ye.; FROLOV, Yu.S.

Orientating aerophotos by shades. Vest. LGU 17 no.12:120-125
'62. (MIRA 15:7)

(Photography, Aerial)

FROLOV, Yu.S.

From Claudius Ptolemy to Rigobert Bonn. Vest. LGU 18 no.6:
118-125 '63.

(MIRA 16:4)

(Cartography)

RODNYANSKAYA, E.I.; FROLOV, Yu.S.

Contribution of young geographers to science. Vest. LGU 18 no.12:
143-144 '63. (MIRA 16:8)

(Geography)

PFRETS, V.A.; FROLOV, Yu.S.

Automation of calculating operations in determining the reserves
of mineral raw materials. Razved. i okh. nedr 29 no.9:5-10 S
'63. (MIRA 16:10)

FROLOV, Yu.S., kand. geograf. nauk

Comparative evaluation of cartographic projections. Izv. vys. ucheb.
zav.; geod. i aerof. no.5:96-103 '64. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet. Rekomendovana
kafedroy kartografii.

L 25671-65 EWT(1) GW
ACCESSION NR: AP5001042

S/0307/64/000/003/0120/0125

AUTHOR: Frolov, Yu. S.

TITLE: Analytical formulas for determining the reduced values of geodetic lengths

SOURCE: Leningrad. Universitet, Vestnik. Seriya geologii i geografii, no. 3, 1964, 120-125

TOPIC TAGS: cartography, cartometry, geodesy, reduced length

ABSTRACT: The method of determining the length of curved lines on a map by measuring them with two compasses with spans of different length, in spite of its clumsiness and poor accuracy, has been widely used in the production of cartometric works of considerable volume. Attempts to resolve this problem have led to the proposal of a number of empirical formulas for mathematical determination of the reduced length. The author considers that A. K. Malovichko's formula is not sufficiently accurate (in the junction of two semicircles alone it produces an error of 60%) and advises that N. M. Volkov's formula has a better claim to universality. He criticizes all proposals for empirical formulas of this nature for trying to over-simplify the calculations, as this gains very little time and leads to the introduction of serious random errors. He proposes two modified formulas for solution of the problem, and also suggests that some of the functions can be

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ACCESSION NR: AP5001042

handled better if written in the form of a nomogram. Orig. art. has: 2 figures,
3 tables and 18 formulas.

ASSOCIATION: none

SUBMITTED: 12May64

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SUB CODE: ES

NO REF SOV: 008

OTHER: 000

Card 2/2

1ST AND 2ND DIGITS		PROCESS AND PROPERTIES INDEX		3RD AND 4TH DIGITS	
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FRLOV-BAOLAYEV, A. M.

Anton Mikhailovich

PA40751

USSR/Medicine - Yeast
Medicine - Fermentation

Oct 1945

"Yeast Isolated from the Sherry Film," A. M. Frolov-
Bagleyev, N. F. Bayenko, Moscow Central Botanical
Research Laboratory of Viticulture, 4 pp

"Microbiologiya" Vol XIV, No 5

Spanish sherry film (solera) is a complex of Sac-
charomyces, a part of which possesses a strong
fermenting ability and forms the film after fermen-
tation while the other part of Hansenula is not able
to ferment but possesses etherizing peculiarities in
the aerobic phase. When fermentation of wines with
pure cultures isolated from solera takes place, the

LC

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USSR/Medicine - Yeast (Contd)

Oct 1945

formed films accumulate acetaldehyde which, although
giving a sherry taste, does not show typical taste
barnacy and bouquet of sherry. Experiments and com-
parison with other sherry yeasts are described.

LS

40751

Grape-seed utilization. A. M. Frolov-Bagrev. *Vinodelia i Vinogradarstvo S.S.S.R.* 8, No. 8, 13-16(1948). — Grape seeds at best comprise 30% of the dry wt. (I) of the press cake. I amounts to 20% of the grape production. Av. yield of grape oil (II) from dry seeds is 15%. The best method of recovery is extr. with C_6H_6 . It is an excellent lubricant, and can replace castor oil, particularly in airplane motors. Variations in oil const. are due to differences in species processed and in stage of ripeness. Sp. gr. ranges from 0.920 to 0.955, t.p. is 13-17°, sapon. no. 178-190, I no. 94-143, nonvolatile fatty acid no. 92-98, volatile fatty acid no. 0.45-0.50, and acetyl no. 2.7-21.6. II is a semidrying oil useful in making dyes, lakes, and resins, and as a butter substitute. It contains 8-13% palmitic and stearic acids, 80% linolenic and erucic acids, traces of melnic acid and of two C_{17} - C_{18} hydroxy acids. II is sol. in petr. ether, glacial AcOH, and incompletely sol. in 95% EtOH. Enotannins cannot be recovered satisfactorily from grape seeds. Grape seeds can be used as a coffee substitute. Harold J. Outfield

Microelements in biochemistry of grapes and wine.
A. M. Frolov-Bagreev, *Vinodelie i Vinogradarstvo S.S.S.R.*
1964, No. 2, 107-108 (Russ.). C.A. 44, 66306. -- A discussion:
In wine, microelements might play a role of biocatalysts, 'E. Wierzbicki

PROLOV- DAGREYEV, A.M.

The importance of microelements in biochemistry of grapes and wines. A. M. Prolov-Dagreyev and B. P. Troitskiy (All Union Sci. Research Inst. Viticult. and Viticult., "Magarach," Valt, Crimea). *Biochim. Yuzh.-biya, Akad. Nauk S.S.R., Sbornik 3*, 53-6/1950. — A discussion (without references). The importance of traces of Cu, Mg, Mn, Co, Fe, and Mo ions for growth and ripening of grapes as well as for the alc. fermentation and aging of wines is pointed out. B. Wierlicki

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Role of microelements in viticulture. A. M. Frolov, Bagrov and E. G. Andreevskaya (Moscow Technol. Inst. Food Ind.). *Vinodeli i Vinogradarstvo S.S.S.R.* 10, No. 6, 38-40 (1950).—Preliminary report on effect of Mn and Mo on wine taste and quality. Table 1 shows general mineral content in 14 different wines of 6 types (mg./l. K_2O , CaO , MgO , Fe_2O_3 , Al_2O_3 , P_2O_5 , SO_2 , SiO_2 , and Cl, and total salt). Table 2 gives similar data for trace elements, together with a taste index (Mn_2O_3 , MoO_3 , V_2O_5 , TiO_2 , B_2O_3 , and Ra (in 10^{-11} mg./l.)). It is suggested that trace elements in juice may affect flavor through poisoning of yeast enzyme systems. Work continues on effect of the trace elements on morphology and physiology of various wine-yeast species. H. Outfield

FROLOV-BAGREYEV, A.M.

S. Frolov-Bagreyev, Anton M., and Agabal'yants, G. G.:
Khimiya vina. (Wine Chemistry). Moscow: Food Ind.
Pub. House. 1971. 391 pp.

ND

(2)

Application of sulfur dioxide during the production of champagne. A. M. Erolov-Buzov, V. V. Agapov, and N. I. Kallina: *Vinodelic i Vinogradarstvo S.S.S.R.* 11, No. 7, 22-4 (1951).--To samples (in glass bottles) of a raw champagne material, contg. 2.20 mg./l. of free SO_2 and 61.44 mg./l. of bound SO_2 , was added 10, 20, 30, 40, 50, 60, 70, and 80 mg. free SO_2 /l., resp., and the yeasts were made capable of fermenting sucrose in the presence of SO_2 (the yeasts were grown in a medium to which a new dose of SO_2 was added after the fermentation was restored, after the previous SO_2 addn.). The fermentation proceeded normally until the SO_2 dose was 70 mg./l.; the addn. of 80 mg. SO_2 /l. stopped the fermentation entirely. By increasing the addn. of free SO_2 , the rate of binding the free SO_2 and the oxidation-reduction potential E_h of the wine were decreased, while the fermentation time, the time between the SO_2 addn. and the fermentation beginning, as well as volatile esters and acids, aldehydes, and glycerol were increased. The best-quality products were obtained by the addn. of 10 and 20 mg. SO_2 /l., 20 mg. being the optimal dose. H_2S was not found in any product (it was found only when free S contaminated some of the raw material). The addn. of 20 mg. SO_2 /l. was applied also to the reservoir production of champagne to give similar results. The product obtained was superior in quality; its chem. compn., as compared with the control, was the following, values of control in parentheses: free SO_2 2.50 (1.50), bound SO_2 69.5 (60.7), H_2SO_4 both 301.6, aldehydes 73.49 (73.31) mg./l., sugar 3.1 (3.2), alc. 11.3 (11.2) %, titratable acidity 0.8 (0.48), volatile acids 0.60 (0.65), volatile esters 102.7 (188.32),

glycerol 7.34 (6.8) g./l., pH 3.05 (3.23), E_h 0.3872 (0.3638) mv., and the pressure in the gas chamber of the reservoir 4.05 (4.65) atm. Since the characteristic aldehyde flavor was more pronounced in the control it was concluded that some of the aldehydes in the exptl. product were not in free form
E. Wierbicki

FROLOV-BAGREYEV, A.M., professor, doktor sel'skokhozyastvennykh nauk;
GERASIMOV, M.A., professor, doktor sel'skokhozyaystvennykh nauk.

Principal problems in improving the quality of wine. Trudy
MTIPP 2:91-96 '52. (MIRA 9:2)

1. Zasluzhennyy deyatel' nauki i tekhniki RSFSR.
(Wine and wine making)

PROLOV-BAGREYEV, A.M.

USSR 1

The forms of carbon dioxide (present) in champagne.
A. M. Prolov-Bagreyev. *Vinodelie i Vinogradarstvo S.S.*
S.S. 12, No. 6, 21-1 (1962). — A discussion. E. W.

FROLOV-BAGREYEV, A-M.

✓ Microelements in the wine industry. A. M. Frolov-
Bagreev and E. G. Andreevskaya (Technol. Inst. Food
Ind., Moscow). *Vinodeliya i. Vinogradarstvo S.S.S.R.* 15,
No. 6, 12-13(1953).--Wines produced in different parts of
the Soviet Union contain much Mn (Mn_2O_3 0.70-7.0 mg./l.)
and B (B_2O_3 3.96-18.3); Mo (MoO_3 0.0015-0.150); V
(V_2O_5 traces-0.800); Ti (TiO_2 0.970); and Ra 0.7-2.7 \times
10⁻⁶ mg.
E. Markus

FROLOV-BAGREYEV, A.M., professor, otvetstvennyy redaktor; NEGRUL', A.M., professor, zamestitel' otvetstvennogo redaktora; BLAGONRAVOV, P.P., kandidat sel'skokhozyaystvennykh nauk, zamestitel' otvetstvennogo redaktora; GERASIMOV, M.A., professor, redaktor; YEGOROV, V.I., redaktor; KARTAVCHENKO, P.K., kandidat sel'skokhozyaystvennykh nauk, redaktor; KATAR'YAN, T.G., kandidat biologicheskikh nauk, redaktor; POTAPENKO, Ya.I., kandidat sel'skokhozyaystvennykh nauk, redaktor; PROSTOSERDOV, N.N. professor, redaktor; TABIDZE, D.I., doktor sel'skokhozyaystvennykh nauk, redaktor; KHARITONOV, A.F., redaktor; KRUGLOVA, G.I., redaktor; KISINA, Ye.I., tekhnicheskiy redaktor.

[. Ampelography of the U.S.S.R.] Ampelografiya SSSR. Red.kollegiya; A.M.Frolov-Bagreyev i dr. Moskva, Gos.nauchno-tekhn.izd-vo M-va promyshl.prodovol'stvennykh tovarov SSSR. Vol.6. 1956. 432 p.
(MLRA 10:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vinodeliya i vinogradarstva "Magarach."
(Grapes--Varieties)

FROLOV-BAGHIEY, Anton Mikhaylovich, prof., doktor sel'sko-khoz.nauk, sasluzhenyy deyatel' nauki i tekhniki RSFSR [deceased]; AGABAL'YANTS, G.G., prof., doktor sel'sko-khoz.nauk, spetsred.; ORESKIN, N.V., inzh., spetsred.; MASLOVA, Ye.F., red.; KISINA, Ye.I., tekhn.red.

[Chemistry and technology of wine] Trudy po khimii i tekhnologii vina. Vol.1. [Soviet champagne. Technical control in making table wines] Sovetskoe shampanskoe; Tekhnicheskii kontrol' v vinodelii stolovykh vin. 1958. 354 p.

(MIRA 12:3)

(Wine and wine making)

FROLOV-BAGREYEV, A.M., prof., doktor sel'skokhoz.nauk; VECHER, A.S.,
prof., doktor biolog.nauk, spetsred.; BELIKOVA, L.S., red.;
RESH, G.S., red.; GOTLIB, E.M., tekhn.red.

[Works in wine chemistry and production] Trudy po khimii i
tekhnologii vina. Moskva, Pishchepromizdat. Vol.2. [Chemistry
of grapes and products of their processing; selected articles]
Khimiia vinograda i produktov ego pererabotki; izbrannye stat'i.
1959. 355 p. (MIRA 13:1)

(Wine and wine making)

(Grapes)

FROLOVA, A.A.

USSR/Cultivated Plants - Fruits, Berries

M-8

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Title : Problems of the Biology and Agrotechny of Gooseberries Under the Conditions Prevalent in the Zone of the Trans-Iliyskiy Alatau Foothills.

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Abstract : During the years 1952-1955 the botanical garden of Alma-Ata has studied the biology and agrotechnical methods of many varieties of gooseberry, among others: the Krasnyy Altay No 40-34-6, Krasnyy Krupnyy No 21-39-1, Michurinets, Mysovskiy No 37 and Khauton; in the botanical garden, these varieties developed well, bore fruit in plenty, were resistant to frost, and not affected by sphaerotheca, and are recommended for large cultivation and propagation under conditions prevalent in the zone of the Trans-Iliyskiy Alatau foothills. Tests have shown that gooseberries have to be watered 7 times during vegetation; the best fertilization for

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